Fujitsu recommends Windows 8 Pro.

Data Sheet
Fujitsu ESPRIMO E510 E85+ Desktop PC

Your Flexible Economy PC

Fujitsu All-round ESPRIMO PCs deliver high-quality computing for your office applications and projects at a very attractive price point. You can choose cost-optimized fixed configurations for immediate delivery. Alternatively, you can use configuration options to meet your specific hardware needs, while staying within your budget.

Intelligent performance and best price/performance ratio
Cost-effective system for large enterprise projects
- 3rd generation Intel® Core™ processor family

Flexibility
Freedom of choice with tailored systems, perfect fit for specific requirements
- Flexible logistics concept - Customizing program (made4you)

Made in Germany
Outstanding quality and stable functions based on German production standards
- The development, production and function tests - all under one roof in Germany

Lifecycle
Hardware continuity for long-lasting project requirements
- Managed lifecycle up to 12 months

Meets ENERGY STAR® requirements
Low power consumption and low costs, without any loss in performance
- Up to 86% energy efficient power supply

Fujitsu recommends Windows 8 Pro.

Components

Processor	Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4000) *
	Intel® Core™ i5-3570 processor (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i3-3220 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2500)
	Intel® Core™ i3-2130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Pentium® processor G870 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G850 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G645 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2120 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2020 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G550 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1610 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
Operating systems	
Operating system	Windows 8 Pro Windows 8 Windows® 7 Professional 64-bit Windows® 7 Professional 32-bit Windows® 7 Home Premium 64-bit Windows® 7 Home Basic (EM) 32-bit
Operating system compatible	openSUSE Linux Windows® XP
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
Hard disk drives (internal)	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	SSD SATA II, 128 GB, 2.5-inch, FDE
	HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 250 GB, 3.5-inch
	HDD SATA II, 7200 rpm, 320 GB, 2.5-inch
Hard disk notes	Up to 18 GB of HDD space is reserved for system recovery
Graphics	NVIDIA® Quadro® NVS 300 LP, 512 MB
	NVIDIA® GeForce® GT630 DisplayPort 2GB LP, 2 GB
	NVIDIA® GeForce® 605 DisplayPort 1GB LP, 1 GB
	LFH59/ 2x DVI-I adapter cable
	LFH59/ 2x DP adapter cable
	DP to DVI-D (single link) Adapter Cable

Drives (optional)	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MCR 24in1 & USB 3.0 front con., 3.5"
	MultiCard Reader 24in1 USB 2.0 3.5"
Interface add on cards/components (optional)	
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only)
	Parallel Interface
	Gigabit Ethernet PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1, powered
	Dual serial card PCIe x1
Base unit	ESPRIMO E510 E85+
Mainboard	
Mainboard type	D3171
Formfactor	µATX
Chipset	Intel® B75
Processor socket	LGA 1155
Processor quantity maximum	1
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	32 GB
Memory frequency	1600 MHz
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same
LAN	10/100/1000 MBit/s Realtek RTL 8111E
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Conexant CX20642
Audio features	Internal speaker supports audio playback (optional), High Definition Audio, 5.1 surround sound
I/O controller on board	
Serial ATA total	4
thereof SATA III	1
thereof eSATA	1 (optional)
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	8
USB 3.0 total	4
USB front	2x 2.0
USB rear	4x 2.0/ 2x 3.0
USB internal	2x 2.0/ 2x 3.0
VGA	1

Interfaces	
DVI	1 (DVI-D)
Serial (RS-232)	1 (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality
Input device / components	
	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO
Drive bays	
Drive bays total	3
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	optional external bay as internal 3,5"
Slots	
PCI-Express 3.0 x16	1 x (200 mm / 7.87 inch) Low profile
PCI-Express x1	2 x (174 mm / 6.85 inch) Low profile
PCI (32-bit / 33 MHz)	1 x (174 mm / 6.85 inch) Low profile
Graphics on board	
Graphics brand name	Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU)
Shared video memory	up to 1759 MB
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
Graphics features	Dual display support DirectX® 10.1 or DirectX® 11 (depending on CPU) HDCP support Open GL® 3.3 (depending on CPU) Open CL™ 1.1 (depending on CPU) For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 83% / 86% / 85%
	0-Watt mode with hard-off switch

Electrical values	
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	280 W
Power factor correction/active power	active
Monitor outlet	No
Power consumption	
Power consumption note	See white paper Energy Consumption 0-Watt mode with hard-off switch
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=fa532e76-0d02-4c65-beb8-9b4af0a2607a
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Standard noise emission	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Bystander position
Standard noise operation mode: HDD load	3.6 B / 23 dB(A)
Standard noise operation mode: Idle mode	3.6 B / 23 dB(A)
Standard noise operation mode: ODD load	4.7 B / 33 dB(A)
Standard noise operation mode: Office applications 2.0	3.7 B / 23 dB(A)
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD load	3.6 B = 36 dB
Blue angel noise operation mode: Idle mode	3.6 B = 36 dB
Blue angel noise operation mode: ODD load	4.7 B = 47 dB
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	340 x 382 x 98 mm 13.39 x 15.04 x 3.86 inch
Operating position	horizontal / vertical (optional, feet needed)
Weight	10 kg
Weight (lbs)	22.05 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Compliance	
Product	ESPRIMO E510
Model	DT8-D3171
Germany	TÜV GS
Europe	CE Nordic Swan
USA/Canada	FCC Class B cCSAus

Compliance	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Gold (dedicated regions)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/
Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software) Fujitsu Recovery (Hard Disk Based Recovery) Norton Internet Security (incl. Firewall) 60 days version Don't forget Office.
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics) Nero 10 Essentials XL
Miscellaneous	
	Thermal management
Compatibility (references)	
	DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS
Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
Security	
System protection	Kensington Lock support Eye for padlock
Audit proof protection	Boot sector virus protection Write protect option for the Flash EPROM Control of external interfaces Optional: Trusted platform module (TPM 1.2)
Access protection	User and supervisor BIOS password Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader
Serviceability	
	EasyFix EasyChange for HDD EasyChange for optical drives
Packaging information	
Packaging dimension (mm)	500 x 290 x 540 mm
Packaging dimension (inch)	19.69 x 11.42 x 21.26 inch
Max. quantity / pallet	28
Material - Weight (g) Carton	940 g
Material - Weight (lbs) Carton	2.07 lbs
Material - Weight (g) EPS / PS	190 g
Material - Weight (lbs) EPS / PS	0.42 lbs
Material - Weight (g) PE	60 g

Packaging information	
Material - Weight (lbs) PE	0.13 lbs
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty	
Standard Warranty	1 year
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Maintenance and Support Services - the perfect extension	
Recommended Service	9x5, Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

Recommended Accessories

Display E19-6 LED		The Fujitsu Display E19-6 LED combines comfortable ergonomics with best-in-class energy saving technology like ECO operation mode.	Order Code: S26361-K1376-V160
Display E22W-6 LED		The E22W-6 LED combines comfortable ergonomics with best-in-class energy saving technology like ECO operation mode.	Order Code: S26361-K1377-V160
Display E23T-6 LED		The E23T-6 LED combines comfortable ergonomics with best-in-class energy saving technology like ECO operation mode.	Order Code: S26361-K1389-V160
CELVIN® Drive D100		The CELVIN® Drive D100 is a highly reliable external storage device with a standard USB-interface for easy Plug & Play use with a notebook or PC. It is also easy to set up additional home network capacity by connecting it with dedicated routers or NAS devices.	Order Code: S26341-F103-L118
MYUSBS A910		The high-quality MYUSBS A910 is a high-class, cost-efficient storage device, which can be used with any standard USB port. Available in different storage capacities the stylish MYUSBS A910 is perfect for a wide range of application areas. This extremely easy to use Plug & Play device fits in any pocket.	Order Code: S26391-F6048-L208
SOUNDSYSTEM DS P2100 Tube		Taking inspiration from a hi-fi sound bar, the Fujitsu SOUNDSYSTEM DS P2100 Tube presents you with living room design art pieces for acoustic enjoyment. Automatic amplifier adjustment ensures extremely low distortion, which will protect the hearing and avoid speaker damage. With new convenient volume control- Fade-in & Fade-out audio effect. The small & robust satellite speaker is decorated with a deluxe piano finish and the aluminum tube is adorned with a fine print of an exotic motif at its base.	Order Code: S26391-F7128-L500

SOUNDSYSTEM DS E2000 Air		The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.	Order Code: S26391-F7128-L600
WebCam 130 HD2		With the most advanced HD (High Definition / 720p) recording feature and widescreen video format (16:9 and 16:10), WebCam 130 HD2 can capture up to 30 frame rate per second, close up to HD/720p quality video. Even more: 1-Click-Upload makes the video uploading to YouTube in a snap! With smart clip for notebook & LCD display it is easy to install on any device you want.	Order Code: S26391-F7136-L5
HS E2000 Communicator Headset		The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications.	Order Code: S26391-F7139-L5
Keyboard KBPC PX ECO		Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.	S26381-K341-L1** (**: country specific variation)
Wireless Keyboard Set LX900		The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.	S26381-K564-L4** (**: Country specific variation)

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO E510 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu ESPRIMO E510 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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Contact
FUJITSU Technology Solutions
Website: www.fujitsu.com/fts
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